

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Laminin α 4 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Laminin alpha 4 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 775830
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Laminin α 4 Gln826-Ala1816 (predicted) Accession # P97927
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

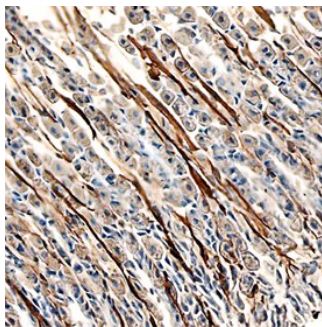
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunohistochemistry	8-25 μ g/mL	See Below

DATA

Immunohistochemistry



Laminin α 4 in Mouse Stomach.
Laminin α 4 was detected in perfusion fixed frozen sections of mouse stomach using Rat Anti-Mouse Laminin α 4 Monoclonal Antibody (Catalog # MAB3837) at 25 μ g/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to endothelial cells in gastric pits. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Laminins are heterotrimeric glycoproteins and are major components of the basement membrane. Each laminin is comprised of a single α , β , and γ chain that heterotrimerize via their coiled-coil domains to form a large cruciform-shaped molecule. Mature Laminin α 4 is a subunit of Laminin 411, Laminin 421, and Laminin 423. Mature Laminin α 4 is a 1792 amino acid (aa) residue protein that has a Laminin N-terminal domain, four Laminin EGF-like domains, the coiled-coil domain, and five C-terminal tandem Laminin G-like domains. The G-like domains contain binding sites for integrin, heparin, and dystroglycan. Within the region used as immunogen, mouse Laminin α 4 shows 91% and 97% aa sequence identity with human and rat Laminin α 4, respectively.